



# FIG. 1

## A SWLA1: LIGHT CHAIN SEQUENCE

*DNA AND AMINO ACID SEQUENCE OF THE  
VL DOMAIN OF CHIMERIC ANTIBODY TEDW*

**EcoRV (242)**

GGGGATATCCACCAGGAGACAGACACACTCCTGCTATGGGTGCTGCTCTGGTTCCAGGTTCCACAGGTGACATTGT  
► M E T D T L L L W V L L L W V P G S T G D I V

**PstI (377)**

GCTGACCCAATCTCCAGTTCTTGCTGTGCTCTAGGSCAGAGGGCACCATACTGCAAGAGCCAGTGAAAGTGTGA  
► L T Q S P V S L A V S L G Q R A T I S C R A S E S V D

**KpnI (427)**

TAGTTATGGCAATAGTTTATGAACCTGGTACAGCAGAAACCAGGACAGGACACCCAACTCTCATCTATCGTCATCCAA  
► S Y G N S F M N W Y Q Q K P G Q P P Q L L I Y R A S N

**XbaI (482)**

TCTAGAATAACGGGATCCCTGCCAGGTTCACTGGCAGTGGGTCTAGGAAACAACCTTCACCCCTACCCATTAACTCTGGAGGC  
► L E Y G I P A R F S G S G S R T D F T L T I N P V E A  
TGATGATGTTGCAACCTATTACTGTCAAGAAAATAATGCGGATCCTCCACGTTCGAGGGGGGACCAAGTTGGAAATCAA  
► D D V A T Y Y C Q Q N N A D P P T F G G G T K L E I K

**Sall (650)**

ACGTAAGTGGAGCCT

► R K S

## B SWLA1: HEAVY CHAIN SEQUENCE

*DNA AND AMINO ACID SEQUENCE OF THE  
VH DOMAIN OF CHIMERIC ANTIBODY TEDW*

**EcoRV (242)**

GGGGATATCCACCAGGCTGCTTGGGCTGCTCTGCTGCTGACATTCCTAACAGCTGTGTCCTGTCAGGTCAGGTGC  
► M A V L G L L F C L V T F P S C V L S Q V

A G C T G A A G G A G T C A G G A C C T G G C C T G G T G G G G D O C T C A C A G A G G C C T G T C A T C A T G C A C T G T C T C A G G G T T C T C A  
► Q L K E S G P G L V A P S Q S L S I T C T V S G F S

T T A A C C A A C T T A T G A T A T A A T T G G G T T G G C A G G C T C A G G A A A G G G T C T G G A G T G G G C T G G G A A T A A T A T G G G G T G A  
► L T N Y D I N W V R Q P P G K G L E W L G I I W G D

C G G G A G G A C A A A T T A T C A T T C A G C T C T C A T A T C C A G A C T G A G C A T C A G C A A G G A T A A C T C C A A G A G C C A A A T T T T C T  
► G S T N Y H S A L I S R L S I S K D N S K S Q I F

T A A A A C T G A A C A G T C T G C A A A C T G A T G A C A C A G C C A C T A C T A C T G T A A C T A C C C G T T T T A T A T T C T A T G G T A T G  
► L K L N S L Q T D D T A T Y Y C N Y P C L Y F Y G M

**NheI (663)**

**Sall (684)**

G A C T A C T G G G G T C A A G G A A C C T C A G T C A C C G T C T C T T C A G C T A G C A C A A C A G C C C C A T C A G C A C C C A  
► D Y W G Q G T S V T V S S A S



FIG. 4

# SWLA1: LIGHT CHAIN SEQUENCE DNA AND AMINO ACID SEQUENCE OF THE ABERRANT VL DOMAIN

FIG. 5

# SWLA1: HEAVY CHAIN SEQUENCE *DNA AND AMINO ACID SEQUENCE OF THE NON-EFFECTIVE 2ND VH DOMAIN*

## EcoRV (242)

GGGGATAATCCACCATGAACCTCGGGTGTGAGCTGGTTTTCTTGTTGTTATCAAGGTGT>CAATTGTGAGGTGCA  
 ▶ M N F G L S W V F F V V F Y Q G V H C E V Q  
 CCTTGGTGAAGACTGGTGGAGGATTGGTGCAGCCTAAAGGTCAATTGAAACTCTCATGTGCAGCCTCTGGATTCACTT  
 ▶ L V E T G G G L V Q P K G S L K L S C A A S G F T F  
 CAATACCAATGCATGAACCTGGTCCGCCAGGCTCAGGAAAGGGTTGGAATGGTTGCTGCATAAGAAGTAAAG  
 ▶ N T N A M N W V R Q A P G K G L E W V A R I R S K S  
 TAATAACTATGCAACATATTATGCGGATTCACTGGAAAGACAGGTTCAACATCTCCAGAGATGATTCAAAAGCATGCT  
 ▶ N N Y A T Y Y A D S V E D R F T I S R D D S Q S M L  
 CTATCTGCAAATGAACAACTTGAAAAAGTGGGACACAGCCATGTAATTACTGTGTGAGAAACTACTATGATTACGACGC  
 ▶ Y L Q M N N L K T E D T A M Y Y C V R N Y Y D Y D A  
**NheI (675)**  
 CTGGTCCGCTTACTGGGGCAAGGGACTGTGGTCACTGTCCTCAGCTAGCACAAACACCCCCCATCAGTCTACCCA  
 ▶ W S A Y W G Q G T V V T V S S A S



## FIG. 6

### SWLA1: HEAVY CHAIN SEQUENCE DNA AND AMINO ACID SEQUENCE OF THE ABERRANT VH DOMAIN

EcoRI	EcoRV
<pre> CAGAATTCCGCCTTGGGATATCCACCATGGAGACAGACACACTCCTGGTATGGGTACTGGCTGCTCTGGGTTGAGCT ▶ M E T D T L L L W V L L L W V P G     TGGACTGCTGACATTTGTGCTGACACAGTCGCTGCTTCTTACGCTCTGCGGCTAGAGGGCCACCATCTCATAC ▶ S T G D I V L T Q S P A S L A V S L G Q R A T I S Y     A R G C C A C C A A A G T G T C A C T A C A T C T G G T A T A G T T A T G C A C T G G A A C T A C A G A A C C G G A C G G C A C C A C A ▶ R A S K S V S T S G Y S Y M H W N Q Q K P G Q P P R     E C O 1 0 9 I     T G C T C A T G A T T T T T A T G A A C G T A G A A T C T G G G T C T T G G C A G T G G G T C T G G G A C G Y A C T I C ▶ L L I Y L V S N L E S G V P A R F S G S G S G T D F     P M I     A G C T C A A C A T C A I C T T G G G A G G A G G A T C T T C A C T G C T T A C T T A G G G C T T A C A G T T C ▶ T L N I H P V E E E D A A T Y Y C Q H I R E L T R S     G A G G G G G A C C A A C C T G G A A T A A A A C C G G N C T N A T G C T G C A C C A A C T G T A T C A T C T T A A A A N C A T C A G T T C A G A G ▶ E G G P S W K     EcoRI     A A G C C G A A T T C C   </pre>	

## FIG. 7

### SWLA2: HEAVY CHAIN SEQUENCE DNA AND AMINO ACID SEQUENCE OF THE ABERRANT VH DOMAIN

EcoRI	EcoRV
<pre> GGAATTCCGCCTTGGGATATCCACCATGGGATGGAGCTGGGTATGGCTCTTCTCTGGCAGGAACGGCAGGTGCT ▶ M G W S W V M L F L L A G T A G V L     EcoRV     C G C T C A G G T C C A G C T C G C A A C A G T C T G G A C C T G A G C T G G T G A A G C T G G C T T C A G T G A A G A T A T C C T G C A A G A C T T C T     ▶ S E V Q L Q Q S G P E L V K P G A S V K I S C K T S     G G A T A C A C A T T C A C T G A A T A C A A C A T G C A C T G G C T G A A A C A G A G C C A T G G A A A G G C C T T G A C T G G A T T E G A G G T A T T A     ▶ G Y T F T E Y N M H W V K Q S H G K S L E W I G G I     A T G C T A A C A A T C G C G T A T T A G T T A C A A C C A G P A G T T C A A G G G C T A A G G C C A C A T T C A C T G T G A C A A G T U C T C U A C C A C     ▶ N P N N G T S Y N Q K F K A K A T L T V D K S S S T     A G C C T A C A T G G A G C T C C G C A A C C T G A C A T C T G A G G A T T C T G C A G T C T A T T A C T G T G C A A G C G G G G T T A T G A T C G G T T A     ▶ A Y M E L R N L T S E D S A V Y Y C A R G V Y D G Y     C T C C C T T T G A C T A C T G G G G C C A A G G C A C C A C T C T C A C A G T C T C C T C A G G C C A A A A C A A C A G C C C C A T C G G T C T A T C C A C     ▶ S L L T T G A K A P L S Q S P Q P K Q Q P H R S I H     T G G C C C T G     ▶ W P L   </pre>	